ATL-346

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Donald Christopher et al.
Art Unit: 3737
Serial No.: 10/694,666
Examiner: William C. Jung
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For : AUTOMATIC OPTIMIZATION OF DOPPLER DISPLAY PARAMETERS

DECLARATION OF IVAN SALGO

I IVAN SALGO, MD am a research scientist with Philips Medical Systems. I have been working with clinical diagnostic ultrasound for the past 12 years. I have a master's degree in chemical engineering from Columbia University and a medical degree from Mt. Sinai School of Medicine, am board certified in anesthesiology, a testamur in echocardiography from the National Board of Echocardiography, and was on faculty as an assistant professor at the University of Pennsylvania Medical School and director of intraoperative echocardiography at the Hospital of the University of Pennsylvania.

I have reviewed US patent 6,099,471 (Torp et al.) This patent concerns an ultrasonic measurement called "strain velocity", which is derived from Doppler. Torp et al. produce strain velocity by obtaining tissue Doppler signals, then taking a derivative (gradient) of tissue

Doppler velocity to produce his strain velocity images from Doppler measurements as shown in Fig. 1 of their patent.

In Torp et al. all of the Doppler echoes are apparently used for the tissue Doppler signals used for strain imaging. There is no intimation of acquiring Doppler echo signals that are not used for imaging, and certainly no intimation of using any undisplayed Doppler signals to optimize the parameters of PRF, color baseline, color range polarity or the range of color pixel values of a Doppler image.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Ivan Salgo MD

Date: 23 Aug 2006